



**DRAFT**  
**DROUGHT MANAGEMENT PLAN**  
**(Version A - Last Reviewed: 10 September 2002)**  
*(Adopted by Council for Community Consultation: 24 September 2002)*

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4.0	Finance & Administration Manager
5.0	Operations Manager
6.0	Operations Manager
7.0	Operations Manager
8.0	Operations Manager
9.0	Planning & Development Manager
10.0	Planning & Development Manager
11.0	Planning & Development Manager
12.0	Operations Manager
<b>Appendices</b>	Planning Development Manager

This document has been structured so that it can be readily added to and updated as necessary. Superseded pages of the document must be removed and replaced with amended text and drawings, as and when appropriate.

To avoid renumbering all subsequent pages in the document when additional pages are added, alphanumeric page numbering shall be used, eg if additional pages are added between page 21 and 22, they shall be numbered 21a, 21b, 21c etc.

The following table outlines the amendments that have been made to this document since it was initially issued.

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**Appendices:**

- 1.0 Local Government (Water Services) Regulation 1999**
- 2.0 Flow Release and Restriction Regime**
- 3.0 Contact List**
- 4.0 Spreadsheets**
- 5.0 Promotion Examples**

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## 1.0 DROUGHT MANAGEMENT PLAN

### 1.1 Introduction

The Drought Management Plan (the *Plan*) establishes how Shoalhaven Water will manage its water supply schemes during periods of drought.

The *Plan* shall be activated at the Shoalhaven Water Manager's discretion, when it is perceived there is a high probability that, if there is no rainfall, water restrictions may be imposed. The *Plan* will remain in force until there is sufficient water in Shoalhaven Water's reservoirs until water restrictions have been lifted and the post-restriction promotion program has been completed.

### 1.2 Objectives

The objectives of the *Plan* are as follows:

- To reduce consumption in the City to an average 45 ML/d for the duration of the restriction period,
- To ensure that available water resources during times of drought are prioritised for essential purposes,
- To reduce the impact of the drought on customers, community and the environment,
- To ensure the community and customers affected are fully aware of the drought, the reasons for restrictions, water saving measures, policing, penalties, exceptions, and how to access further information; and
- To liaise with relevant government agencies associated with regulating the water resources, environment and community health.

### 1.3 Water Supply Schemes

Shoalhaven Water owns and operates three separate water supply schemes:

- Shoalhaven Water Supply Scheme
- Kangaroo Valley Water Supply Scheme
- Strong's Road Water Supply Scheme

Each water supply scheme is supplied from separate water sources, which are outlined below.

#### Shoalhaven Water Supply Scheme

- Shoalhaven River via a water entitlement administered by the Department of Land & Water Conservation (DLWC). This entitlement includes pumping from the Shoalhaven River at a maximum rate of 90 ML/day, provided that flows entering Tallowa Dam are at 180 ML/day or greater. For flows less than 180 ML/day, 90 ML/day must be allowed to pass Burrier Pumping Station for

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environmental purposes. Flows between 90 and 180 ML/day can be diverted via Burrier Pumps.

- Council's Danjera Dam on Danjera Creek at Yalwal with a capacity of 7,660 megalitres. There is a 0.5ML/day environmental flow through Danjera Dam. Leakage from the dam is assumed to account for environmental flow release.
- Council's Porters Creek Dam on Porters Creek, northwest of Milton with a capacity of 1900 megalitres. Porters Creek Dam is located in Morton National Park, and Council's leases the land (from the National Parks and Wildlife Service) on which the dam and associated infrastructure is located .
- In any one-year, approximately 23,000 megalitres may be diverted from the Shoalhaven River, Danjera Dam and Porters Creek Dam or such greater amount provided that over a three-year period the average is no greater than 23,000 megalitres.

#### **Kangaroo Valley Water Supply Scheme**

- Sydney Catchment Authority's Bendeela Pondage with a capacity of 920 megalitres. The Sydney Catchment Authority (SCA) supplies water by agreement at a maximum rate of 1.25 megalitres per day.
- Kangaroo River/Nugents Creek via a water entitlement administered by DLWC. This entitlement allows a maximum of 85 megalitres per year or such greater amount provided that over a three-year period the average is no greater than 85 megalitres.

#### **Strong's Road Water Supply Scheme**

- Council's pipe-head weir on an unnamed creek at Jaspers Brush. The scheme supplies raw water to approximately 32 rural properties along Strong's Road.

### **1.4 Implementation of the Drought Management Plan**

Activation, implementation and de-activation of the *Plan* shall be the responsibility of the Shoalhaven Water Manager.

The timing of activities carried out under the *Plan* and the person responsible for carrying out these activities is outlined in the Drought Action Plan (Refer Section 2.0).

The Drought Action Plan focuses on the management of a drought in the Shoalhaven Water Supply Scheme. For droughts which affect the Kangaroo Valley and/or Strong's Road water supply schemes, the actions contained within this Drought Management Plan shall be implemented as appropriate.

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## 2.0 DROUGHT ACTION PLAN

River flows and reservoir storage volumes becoming progressively depleted prompt actions under the Drought Action Plan. *Refer Flow Release and Restriction Regime – Appendix 2.*

ITEM	ACTION	RESPONSIBILITY
<b>1.0</b>	<b>FLOWS IN THE SHOALHAVEN RIVER AT BURRIER OF &gt;180ML/day</b>	
1.1	Bamarang Dam supplying Bamarang WTP and Flatrock WTP shall be supplied by pumping water from the Shoalhaven River at Burrier. Burrier pumps can pump a maximum volume of 90 ML/d.	Headworks Engineer
1.2	Danjera Dam shall be kept full as drought backup	Headworks Engineer
1.3.1	<b>Milton WTP demand &lt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supplies Milton WTP.	Headworks Engineer
1.3.2	<b>Milton WTP demand &gt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supply shall be supplemented with water transferred to Milton Reservoir via Conjola Pumping Station.	Headworks Engineer
1.3.3.1	<b>Porters Creek Dam is &lt;70% full</b> Shoalhaven River supplies the Southern Shoalhaven by transferring 6.5ML/day to Milton Reservoir via Conjola Water Pumping Station. Any additional water required shall be supplied from Porters Creek Dam.	Headworks Engineer
1.3.3.2	<b>Porters Creek Dam is &lt;70% full</b> Activate the following sections of the <i>Plan</i> for the <b>Southern Shoalhaven only</b> : <ul style="list-style-type: none"> <li>• Section 3.0 – Weekly meetings of the DMT</li> <li>• Section 4.0 – Information Hotline</li> <li>• Section 5.0 - Monitoring</li> <li>• Section 8.0 - Reporting</li> <li>• Section 9.0 - Water Conservation and Water Shortage Promotion</li> </ul>	Responsible Staff
<b>2.0</b>	<b>FLOWS IN THE SHOALHAVEN RIVER AT BURRIER OF &lt;180ML/day &amp; &gt;90ML/day</b>	
2.1.1	Bamarang Dam shall be supplied by pumping water from the Shoalhaven River at Burrier. Maximum volume to be pumped is the difference between the actual flow and the environmental flow (90 ML/d). If required, SCA will “bank” water in Tallowa Dam and will release a block of water to allow pumping at 90ML/day.	Headworks Engineer

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ITEM	ACTION	RESPONSIBILITY
2.1.2	If water consumption is high and causes Bamarang Dam to begin being drawn down, activate the following sections of the <i>Plan</i> : <ul style="list-style-type: none"> <li>• Section 3.0 – Weekly meetings of the DMT</li> <li>• Section 4.0 – Information Hotline</li> <li>• Section 9.1– Water Conservation and Water Shortage Promotion (when flows &lt; 150 ML/day)</li> </ul>	Shoalhaven Water Manager and Responsible Staff
2.2	Danjera Dam shall be kept full as drought backup	Headworks Engineer
2.3.1	<b>Milton WTP demand &lt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supplies Milton WTP.	Headworks Engineer
2.3.2	<b>Milton WTP demand &gt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supply shall be supplemented with water transferred to Milton Reservoir via Conjola Water Pumping Station.	Headworks Engineer
2.3.3.1	<b>Porters Creek Dam is &lt;70% full</b> Shoalhaven River supplies the Southern Shoalhaven by transferring 6.5ML/day to Milton Reservoir via Conjola Water Pumping Station. Any additional water required shall be supplied from Porters Creek Dam	Headworks Engineer
2.3.3.2	<b>Porters Creek Dam is &lt;70% full</b> Activate the following sections of the <i>Plan</i> for the <b>Southern Shoalhaven only</b> : <ul style="list-style-type: none"> <li>• Section 3.0 – Weekly meetings of the DMT</li> <li>• Section 4.0 – Information Hotline</li> <li>• Section 5.0 - Monitoring</li> <li>• Section 6.0 - Reporting</li> <li>• Section 9.1 - Water Conservation and Water Shortage Promotion</li> </ul>	Responsible Staff
<b>3.0</b>	<b>FLOWS IN THE SHOALHAVEN RIVER AT BURRIER OF &lt;90ML/day</b>	
3.1.1	<b>Bamarang Dam cannot be supplied from Burrier Pump Station</b> and will begin to be drawn down.	Headworks Engineer
3.1.2	Activate the following sections of the <i>Plan</i> : <ul style="list-style-type: none"> <li>• Section 3.0 – Weekly meetings of the DMT</li> <li>• Section 4.0 – Information Hotline</li> <li>• Section 5.0 - Monitoring</li> <li>• Section 6.0 – Reporting</li> <li>• Section 7.0 - River Extraction</li> <li>• Section 9.1 - Water Conservation and Water Shortage Promotion</li> </ul>	Shoalhaven Water Manager

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ITEM	ACTION	RESPONSIBILITY
3.2	Danjera Dam shall be kept full as drought backup	Headworks Engineer
3.3.1	<b>Milton WTP demand &lt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supplies Milton WTP.	Headworks Engineer
3.3.2	<b>Milton WTP demand &gt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supply shall be supplemented with water transferred to Milton Reservoir via Conjola Water Pumping Station.	Headworks Engineer
3.3.3	<b>Porters Creek Dam is &lt;70% full</b> Shoalhaven River supplies the Southern Shoalhaven by transferring 6.5ML/day to Milton Reservoir via Conjola Water Pumping Station. Any additional water required shall be supplied from Porters Creek Dam	Headworks Engineer
<b>4.0</b>	<b>BAMARANG DAM DRAWN DOWN TO SAFE LIMIT OF 2200 ML (1<sup>st</sup> TIME)</b>	
4.1.1	Shoalhaven Water Manager to gain approval from the General Manager to impose Category 1 Water Restrictions.	Shoalhaven Water Manager
4.1.2	Impose Category 1 Water Restrictions in accordance with Section 10.0 of the <i>Plan</i>	Shoalhaven Water Manager
4.1.3	Activate the following sections of the <i>Plan</i> : <ul style="list-style-type: none"> <li>• Section 9.2 – Water Restriction Promotion</li> <li>• Section 11.0 - Regulation</li> </ul>	Shoalhaven Water Manager & Responsible Staff
4.1.4	Continue implementing the following sections of the <i>Plan</i> : <ul style="list-style-type: none"> <li>• Section 3.0 – Twice-weekly meetings of the DMT</li> <li>• Section 4.0 – Information Hotline</li> <li>• Section 5.0 - Monitoring</li> <li>• Section 6.0 – Reporting</li> <li>• Section 7.0 - River Extraction</li> <li>• Section 9.1 - Water Conservation and Water Shortage Promotion</li> </ul>	Responsible Staff
4.2.	<b>Release 90 ML/d from Danjera Dam</b> and pump 24 hrs/day at Burrier until <b>Bamarang Dam is full (3800 ML)</b> . Refer Section 8.0 – Danjera Dam Release	Headworks Engineer
<b>5.0</b>	<b>BAMARANG DAM FILLED TO TWL (1<sup>st</sup> TIME)</b>	
5.1.1	Shoalhaven Water Manager to gain approval from the General Manager to impose Category 2 Water Restrictions	Shoalhaven Water Manager

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ITEM	ACTION	RESPONSIBILITY
5.1.2	Impose Category 2 Water Restrictions in accordance with Section 10.0 of the <i>Plan</i>	Shoalhaven Water Manager
5.1.3	Continue implementing the following sections of the <i>Plan</i> : <ul style="list-style-type: none"> <li>• Section 3.0 – Twice-weekly meetings of the DMT</li> <li>• Section 4.0 – Information Hotline</li> <li>• Section 5.0 - Monitoring</li> <li>• Section 6.0 - Reporting</li> <li>• Section 7.0 - River Extraction</li> <li>• Section 9.1– Water Conservation and Water Shortage Promotion</li> <li>• Section 9.2 - Water Restriction Promotion (Category 2 Water Restrictions)</li> <li>• Section 11.0 – Regulation</li> </ul>	Responsible Staff
5.2.1	<b>Milton WTP demand &lt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supplies Milton WTP.	Headworks Engineer
5.2.2	<b>Milton WTP demand &gt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supply shall be supplemented with water transferred to Milton Reservoir via Conjola Water Pumping Station.	Headworks Engineer
5.3.3	<b>Porters Creek Dam is &lt;70% full</b> Shoalhaven River supplies the Southern Shoalhaven by transferring 6.5ML/day to Milton Reservoir via Conjola Water Pumping Station. Any additional water required shall be supplied from Porters Creek Dam	Headworks Engineer
<b>6.0</b>	<b>BAMARANG DAM DRAWN DOWN TO SAFE LIMIT OF 2200 ML (2<sup>nd</sup> TIME)</b>	
6.1.1	Shoalhaven Water Manager to gain approval from the General Manager to impose Category 3 Water Restrictions.	Shoalhaven Water Manager
6.1.2	Impose Category 3 Water Restrictions in accordance with Section 10.0 of the <i>Plan</i>	Shoalhaven Water Manager
6.1.3	Continue implementing the following sections of the <i>Plan</i> : <ul style="list-style-type: none"> <li>• Section 3.0 – Twice-weekly meetings of the DMT</li> <li>• Section 4.0 – Information Hotline</li> <li>• Section 5.0 - Monitoring</li> <li>• Section 6.0 - Reporting</li> <li>• Section 7.0 - River Extraction</li> <li>• Section 9.1– Water Conservation and Water Shortage Promotion</li> <li>• Section 9.2 - Water Restriction Promotion (Category 2</li> </ul>	Responsible Staff

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	Water Restrictions) <ul style="list-style-type: none"> <li>Section 11.0 – Regulation</li> </ul>	
6.2.1	Any water which has been “banked” in Tallowa Dam by SCA shall be released at 90ML/day and pumped at Burrier prior to second release from Danjera Dam	Headworks Engineer
6.2.2	<b>Release 90 ML/d from Danjera Dam</b> and pump 24 hrs/day at Burrier <b>until Bamarang Dam is full</b> (3800 ML). Refer Section 8.0 Danjera Dam Release.	Headworks Engineer
6.3.1	<b>Milton WTP demand &lt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supplies Milton WTP.	Headworks Engineer
6.3.2	<b>Milton WTP demand &gt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supply shall be supplemented with water transferred to Milton Reservoir via Conjola Water Pumping Station.	Headworks Engineer
5.3.3	<b>Porters Creek Dam is &lt;70% full</b> Shoalhaven River supplies the Southern Shoalhaven by transferring 6.5ML/day to Milton Reservoir via Conjola Water Pumping Station. Any additional water required shall be supplied from Porters Creek Dam	Headworks Engineer
<b>7.0</b>	<b>BAMARANG DAM DRAWN DOWN TO SAFE LIMIT OF 2200 ML (3<sup>rd</sup> TIME)</b>	
7.1.1	Shoalhaven Water Manager to gain approval from the General Manager to impose <b>Category 4</b> Water Restrictions.	Shoalhaven Water Manager
7.1.2	Impose Category 4 Water Restrictions in accordance with Section 10.0 of the <i>Plan</i>	Shoalhaven Water Manager
7.1.3	Continue implementing the following sections of the <i>Plan</i> : <ul style="list-style-type: none"> <li>Section 3.0 – Twice weekly meetings of the DMT</li> <li>Section 4.0 – Information Hotline</li> <li>Section 5.0 - Monitoring</li> <li>Section 6.0 - Reporting</li> <li>Section 7.0 - River Extraction</li> <li>Section 9.1– Water Conservation and Water Shortage Promotion</li> <li>Section 9.2 - Water Restriction Promotion (Category 3 Water Restrictions)</li> <li>Section 11.0 - Regulation</li> </ul>	Responsible Staff
7.2.1	Any water which has been “banked” in Tallowa Dam by SCA shall be released at 90ML/day and pumped at Burrier prior to third release from Danjera Dam	Headworks Engineer

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7.2.2	<b>Release 90 ML/d from Danjera Dam</b> and pump 24 hrs/day at Burrier <b>until Bamarang Dam is full</b> (3800 ML). Danjera Dam should now be almost completely drawn down. Refer Section 8.0 Danjera Dam Release	Headworks Engineer
7.2.3	Liase with SCA regarding possible purchase of bulk water from Tallowa Dam. Refer Section 12.0 - Bulk Water Purchase from SCA	Shoalhaven Water Manager
7.2.4	Request Minister for Land and Water Conservation to approve the pumping of a percentage of the environmental flow. If approval is given, pump approved percentage of environmental flow.	Shoalhaven Water Manager
7.3.1	<b>Milton WTP demand &lt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supplies Milton WTP.	Headworks Engineer
7.3.2	<b>Milton WTP demand &gt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supply shall be supplemented with water transferred to Milton Reservoir via Conjola Water Pumping Station.	Headworks Engineer
7.3.3	<b>Porters Creek Dam is &lt;70% full</b> Shoalhaven River supplies the Southern Shoalhaven by transferring 6.5ML/day to Milton Reservoir via Conjola Water Pumping Station. Any additional water required shall be supplied from Porters Creek Dam	Headworks Engineer
<b>8.0</b>	<b>BAMARANG DAM DRAWN DOWN TO SAFE LIMIT OF 2200 ML (4th TIME)</b>	
8.1.1	Continue implementing the following sections of the <i>Plan</i> : <ul style="list-style-type: none"> <li>• Section 3.0 – Twice weekly meetings of the DMT</li> <li>• Section 4.0 – Information Hotline</li> <li>• Section 5.0 - Monitoring</li> <li>• Section 6.0 - Reporting</li> <li>• Section 7.0 - River Extraction</li> <li>• Section 9.1– Water Conservation and Water Shortage Promotion</li> <li>• Section 9.2 - Water Restriction Promotion (Category 2 Water Restrictions)</li> <li>• Section 11.0 - Regulation</li> </ul>	Responsible Staff
8.2.1	Any water which has been “banked” in Tallowa Dam by SCA shall be released at 90ML/day and pumped at Burrier prior to third release from Danjera Dam	Headworks Engineer
8.2.2	Any water which is still left in Danjera Dam shall be released at 90 ML/d and pumped 24 hrs/d at Burrier until Bamarang is full (3800 ML). This should take about 4/5 weeks depending on demand. Refer Section 8.0 Danjera Dam Release	Headworks Engineer

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8.2.3	Pump approved percentage of Shoalhaven River environmental flow	Headworks Engineer
8.2.4	Purchase water from SCA and pump from Shoalhaven River at Burrier. Refer Section 12.0 – Bulk Water Purchase from SCA	Headworks Engineer
8.3.1	<b>Milton WTP demand &lt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supplies Milton WTP.	Headworks Engineer
8.3.2	<b>Milton WTP demand &gt;10.5ML/day and Porters Creek Dam &gt;70% full</b> Porters Creek Dam supply shall be supplemented with water transferred to Milton Reservoir via Conjola Water Pumping Station.	Headworks Engineer
8.3.3	<b>Porters Creek Dam is &lt;70% full</b> Shoalhaven River supplies the Southern Shoalhaven by transferring 6.5ML/day to Milton Reservoir via Conjola Water Pumping Station. Any additional water required shall be supplied from Porters Creek Dam	Headworks Engineer

### 3.0 The Drought Management Team

During implementation of the *Plan*, the Shoalhaven Water Manager shall lead the Drought Management Team (DMT) comprising the following staff:

- Planning and Development Manager;
- Operations Manager; and
- Finance and Administration Manager

The DMT shall coordinate the implementation of the *Plan* by utilising the available expertise and resources. The DMT shall meet weekly during the implementation of the *Plan*, and twice weekly whilst any water restrictions are in place to monitor environmental conditions and the community's response to the *Plan*.

The Shoalhaven Water Manager may delegate the leadership role to any other officer as is deemed appropriate.

### 4.0 Information Hotline

Assistance is to be provided to water supply customers to enable them to obtain details of water restrictions and make application for exemptions. This shall be done by:

- Setting up a water restriction telephone 'hotline' for customer enquiries (1300 66 44 26).
- Providing data base (see Appendix 5) of customer enquiries to track ;

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- General enquiries – number and type
- Exemption applications and approvals

**Responsibility:** Finance and Administration Manager

### 5.0 Monitoring

The Operations Section on a daily basis undertakes monitoring of the following items:

- Water consumption across all City areas (Kangaroo Valley WTP, Bamarang WTP, Flatrock WTP, APM Raw Water, Milton WTP, does not include Strong's Road);
- Storage levels and volumes for Tallowa Dam, Danjera Dam, Bamarang Dam and Porters Creek Dam;
- Volumes of inflows and releases from Tallowa Dam;
- Shoalhaven River and Danjera Creek flows;
- Water transfers to Southern Shoalhaven; and
- Volume of releases from Danjera Dam

The records shall be placed on the Shoalhaven Water H drive.

**Responsibility:** Headworks Engineer

### 6.0 Reporting

Reporting on:

- Monitoring
- River Extraction
- Danjera Releases

At least twice per week, Monday and Thursdays pm.

Reporting shall be provided to the following people:

- Shoalhaven Water Manager
- Operations Manager
- Planning/Development Manager
- Finance and Administration Manager
- Headworks Co-ordinator
- Planning/Policy Engineer

**Responsibility:** Headworks Engineer

### 7.0 River Extraction

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Liaise with Sydney Catchment Authority at a minimum twice per week regarding releases from Tallowa Dam into the Shoalhaven River, and pumping from Burrier into Bamarang offstream storage.

**Responsibility:** Headworks Engineer

## 8.0 Danjera Dam Release

Danjera Dam is maintained for emergency water supply purposes. When Bamarang Dam is drawn down to 2200ML, water is released from Danjera Dam into Yalwal Creek at 90ML/day. An equivalent volume of water is pumped from the Shoalhaven River at Burrier into Bamarang Dam.

When Bamarang Dam reaches full supply level (3,800ML), the release from Danjera Dam is stopped. This should take about 4 to 5 weeks depending on demand.

**Responsibility:** Operations Manager

## 9.0 Promotion

### 9.1 Water Conservation and Water Shortage Promotion

Promotion via local radio and print media to highlight:

- Need to conserve water
- Hot, dry conditions, low river flows
- Provide conservation tips
- Impending restrictions
- Advise community regarding the Information Hotline (1300 66 44 26)

Advise the following government agencies of the possible impending restrictions:

- DLWC – Water License Regulator
- NPWS – Land Managers adjacent Danjera Creek
- SCA – Shoalhaven River monitoring

**Responsibility:** Planning/Policy Engineer

### 9.2 Water Restriction Promotion

Following a decision to apply water restrictions, promotions (see Appendix 5) will be undertaken on local radio and print media (and possibly TV) for the following:

- Media release - Details of the restrictions
- Water Saving tips
- Process for applying for an exemption
- Methods of policing the restrictions and penalties applicable

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- The water restriction 'hotline'
- Posters for community notice boards
- Signage at city boundaries
- Shoalhaven Water Internet Site
- Feature Articles
- Grey Water Use Guidelines
- Releases of Water from Danjera Dam
- Advise community regarding the Information Hotline (1300 66 44 26)

The above information should also be provided in a "flyer" to be distributed to all properties in the City to ensure total coverage. Consideration should be given to posting the flyer to non-Shoalhaven resident owners for their information.

Detailed briefings should be provided to all Shoalhaven Water personnel particularly in the Customer Service office and outdoor areas.

Liaison with City Services and Asset Construction and Maintenance divisions to ensure awareness of restrictions and their particular application (e.g. irrigation of sporting fields, water for road construction etc.)

**Responsibility:** Planning/Policy Engineer

### 9.3 Post Water Restriction Promotion

Subsequent to Council resolving to lift restrictions, the general community would be advised via local radio/print media.

**Responsibility:** Planning/Policy Engineer

## 10.0 Water Restrictions

### 10.1 General

Water restrictions are only applied when severe water shortages are clearly evident. Various categories of restrictions have varying impact on consumption hence on available water resources. Restrictions are widely advertised for total customer awareness, commencing with the least severe (Category 1) and increasing in severity as the drought conditions dictate.

### 10.2 Legislation

Water restrictions, if necessary, are imposed under the Local Government (Water Services) Regulation 1999 – Part 2, Section 5 (See Attachment 1).

### 10.3 Imposition and Lifting of Water Restrictions

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The General Manager under delegation from 'The Council' has authority to impose water restrictions (Council Minute .....). The General Manager also has delegated authority to lift water restrictions.

#### 10.4 Advertising

The imposition of water restrictions (and any subsequent upgrading or lifting) must be advertised in a newspaper circulating throughout the area affected by the restrictions.

#### 10.5 Areas Affected

Restrictions may be imposed:

- (a) Across the City; or
- (b) Within selected parts of the City

Any water supply agreements are subject to the restrictions imposed.

#### 10.6 Restriction Categories

Category	Restrictions
Category 1	<ul style="list-style-type: none"> <li>• The use of fixed sprinklers, watering systems and fixed hoses is banned between 10am &amp; 6pm</li> </ul>
Category 2	<ul style="list-style-type: none"> <li>• The use of hand held hoses is restricted to the following times: 6am – 8am &amp; 4pm - 6pm (These times may be varied during daylight saving)</li> <li>• The washing of paved areas is banned at all times</li> <li>• The use of fixed sprinklers, watering systems and fixed hoses is banned at all times</li> <li>• Commercial operations with drip and/or auto-irrigation systems are restricted to 2 hours use per day</li> <li>• Applications for exemptions for specific commercial operations and community uses may be made to Shoalhaven Water.</li> </ul>
Category 3	<ul style="list-style-type: none"> <li>• The use of hand held hoses is restricted to the following times: 6am – 8am &amp; 4pm - 6pm on Wednesdays &amp; Sundays only (These times may be varied during daylight saving)</li> <li>• The washing of paved areas and cars with hoses is banned at all times</li> <li>• All forms of fixed irrigation systems including fixed sprinklers and fixed hoses is banned at all times</li> <li>• No withdrawal of water from Council's mains without</li> </ul>

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Category	Restrictions
	<p>approval. For commercial or stock watering, approval can be given to tanker water from Flatrock Dam.</p> <ul style="list-style-type: none"> <li>• Applications for exemptions for specific commercial operations and community uses may be made to Shoalhaven Water.</li> </ul>
Category 4	<ul style="list-style-type: none"> <li>• Use of water for any outside purpose banned</li> <li>• All non-essential uses of water banned</li> <li>• Automatic washing/dish washing banned.</li> <li>• Applications for exemptions for specific commercial operations and community uses may be made to Shoalhaven Water.</li> </ul>

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## 11.0 Regulation

Following the application of water restrictions, processing of applications for exemptions, policing of restrictions and the infringement process will be operational

### 11.1 Exemptions

Exemptions will be provided for commercial/industrial customers to maintain the viability of any business reliant on reticulated water supply. Applications may be made in the following ways;

- Direct contact
- Facsimile
- Shoalhaven Water Internet

Approval of applications will ensure that water use is the minimum necessary to maintain a business and is consistent with the level of water restriction operating at the time.

Exemptions will be provided on a form ( see Appendix 4 ) that can be displayed by the applicant that approval has been granted, and the conditions of that approval.

Exemptions previously issued will require re-application and approval when a higher level of restrictions are imposed.

**Responsibility:** Planning/Development Manager

### 11.2 Policing

Policing to ensure compliance with water restrictions will be by the following:

- Inspectors appointed to follow up on reported infringements in the following areas;
  - Northern Shoalhaven
  - Central Shoalhaven
  - Southern Shoalhaven(Inspectors may be from either the Operations Section or Planning & Development Section)
- Council staff instructed to report any sightings of possible infringements
- Engagement of private security firms to undertake random inspections of the above areas during daylight hours (am and pm) and to report any infringement to the relevant inspector.
- All Council staff instructed to report any sightings of possible infringements to Shoalhaven Water. The appropriate Inspector would then be advised and will attend and interview the suspected offender. This interview would be cautionary and to ensure the person is aware of restrictions and notify that any further offence could lead to a fine.

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**Responsibility:** Planning/Policy Engineer

### 11.3 Infringement Process

Council's Ranger Service would be responsible for undertaking interviews of repeat offenders and in liaison with the appropriate Manager make a decision whether to proceed with prosecution.

**Responsibility:** Planning/Policy Engineer  
Ranger Services Manager

### 12.0 Bulk Water Purchase from Sydney Catchment Authority

In accordance with the draft agreement between SCA & Shoalhaven Water, bulk water may be purchased from SCA and provided as a release from Tallowa Dam. The water will be pumped from the Shoalhaven River at Burrier.

The volume & rate of water released from Tallowa Dam shall be agreed between the Headworks Engineer and SCA.

**Responsibility:** Headworks Engineer

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